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(71)Applicant : NIPPON SHOKUBAI KAGAKU
KOGYO CO LTD

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(72)Inventor : YONEDA TADAHIRO
KURAMOTO SHIGEFUMI
SATAKE TAKESHI

(54) PLASTIC COMPOSITE MATERIAL

(57)Abstract:

PURPOSE: To obtain a plastic composite material to which antistatic property, selective transmission of light, light interference, etc., are imparted, by forming a transparent film of a titania hydrosol-based coating composition on the surface of a plastic.

CONSTITUTION: A plastic composite material prepared by foaming a transparent film of a titania hydrosol-based coating composition on the surface of a plastic. Especially, when the titania hydrosol is reduced in a sol particle diameter so that its mean diameter may be 0.1μ or below, preferably, 0.05μ or below, the sol component in the titania hydrosol can show a strong affinity for the plastic surface and excellent adhesion and can form a homogeneous titania thin film. In order to obtain a titania hydrosol in the form of fine particles, a process comprising hydrolyzing an aqueous solution of a titanate, preferably, titanium tetraalkoxide in the presence of a stabilizer such as a chelating agent such as acetic acid by using an OH-form anion exchange resin can be advantageously carried out.

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